SCALEABLE RSVP SIGNALING BETWEEN VOIP DIAL-PEERS FOR TANDEM VOICE SOLUTIONS

ABSTRACT OF THE DISCLOSURE

A method for high quality voice communication over an IP network. The method is implemented using an IP network device. Voice communication quality of service is initiated through the transmission of a path message for the voice communication. The path message is configured for establishing a communications path through the nodes of the IP network. A reservation message is received in response to the path message. The reservation message is configured for specifying a range of voice streams for a bandwidth reservation, allowing a single reservation message to specify bandwidth for quality of service for multiple voice calls. The bandwidth reservation for the range of voice streams is implemented in accordance with the reservation message. The path message can be transmitted from an originating IP network device, such as an originating VoIP gateway, and can be generated by a first voice application executing thereon. The reservation message can be received from a terminating IP network device, such as a terminating VoIP gateway, and can be generated by a second voice application executing thereon. The reservation message includes a source port range specifying the range of voice streams for transmission. A bandwidth reservation table within the IP network device is updated in accordance with the reservation message, and bandwidth for transmission of the range of voice streams is reserved using the reservation table.